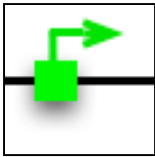


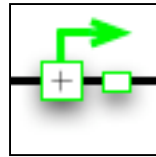
Key for Diagrams- Using sBOL-V



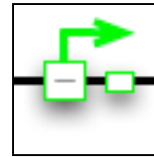
“AND” Gate- both inputs are necessary for an output.



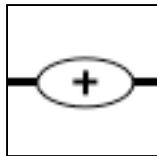
**Constitutive
Promoter**



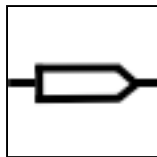
**Inducible
Promoter**



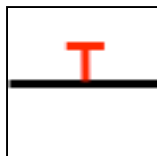
**Repressible
Promoter**



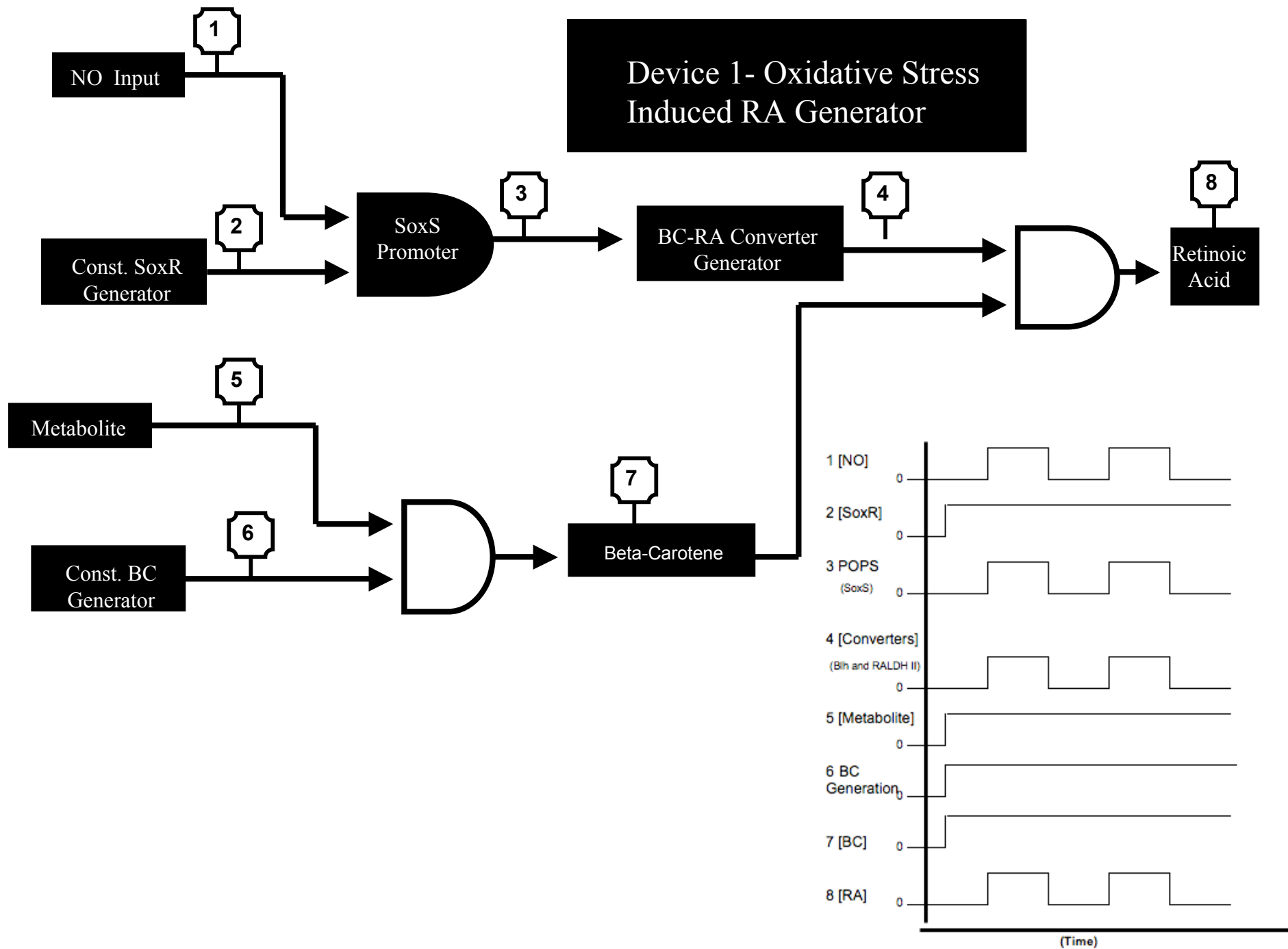
Ribosome Binding Site



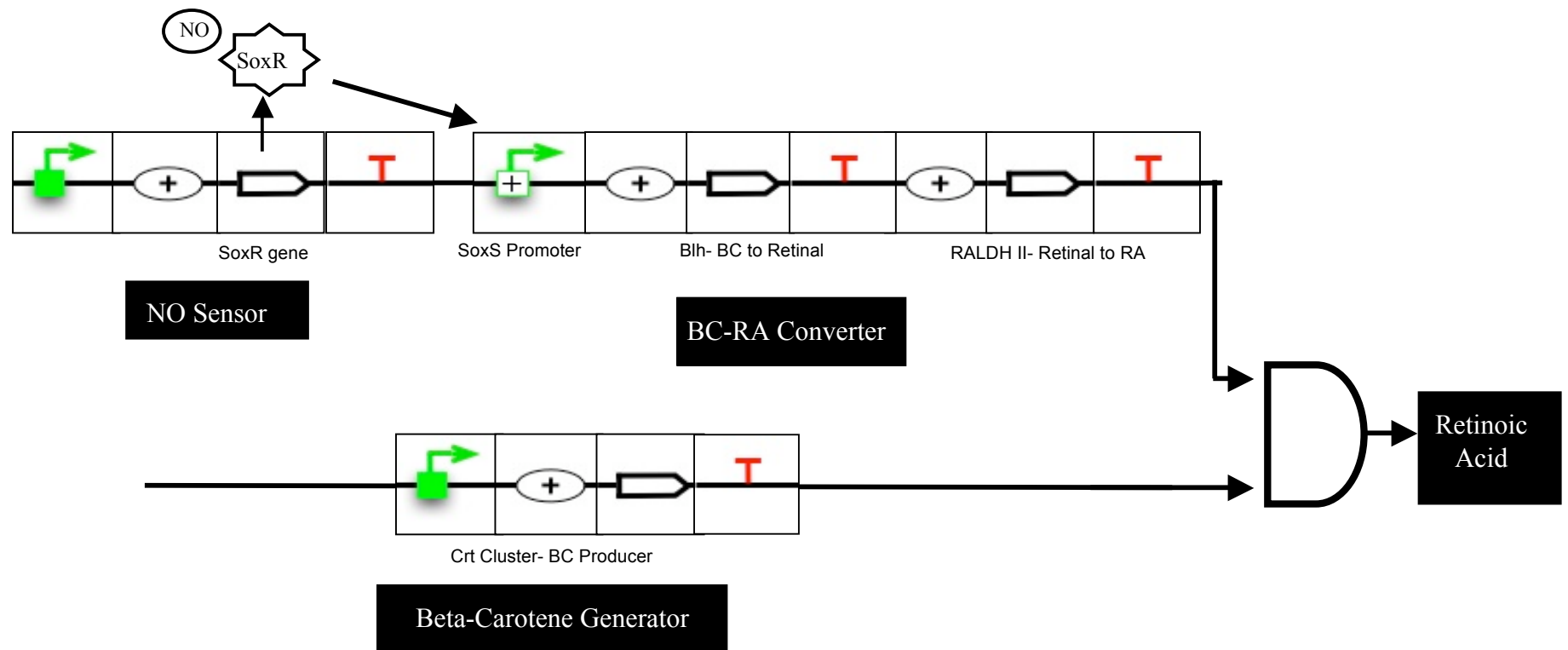
Open Reading Frame



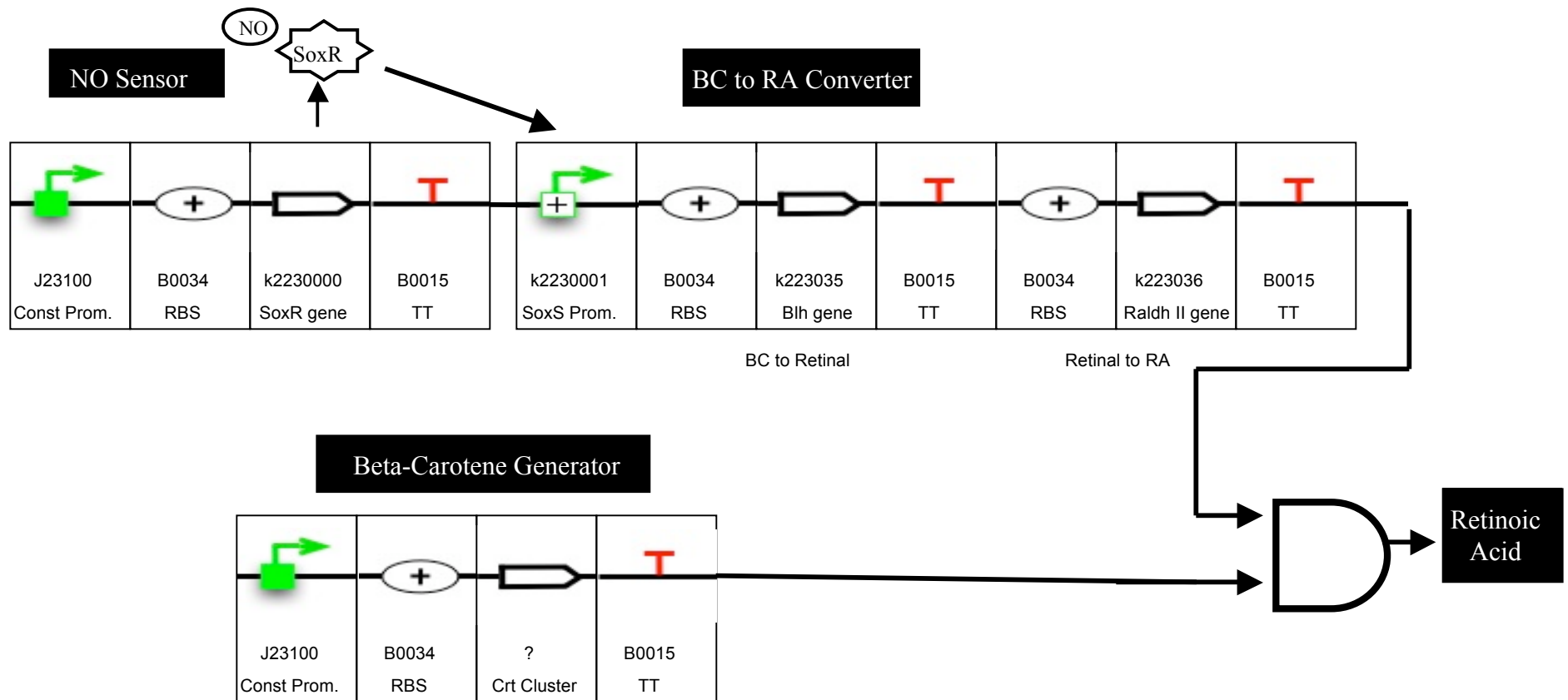
Terminator



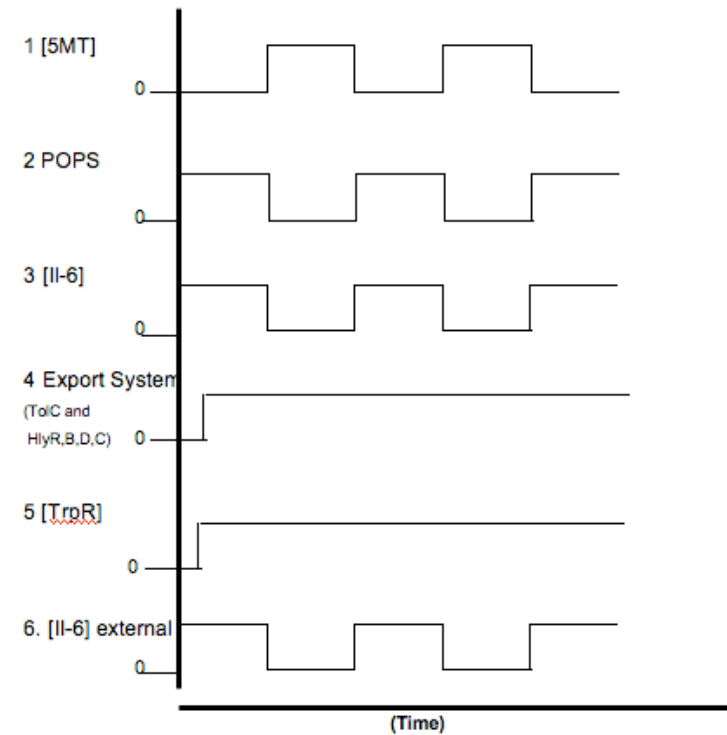
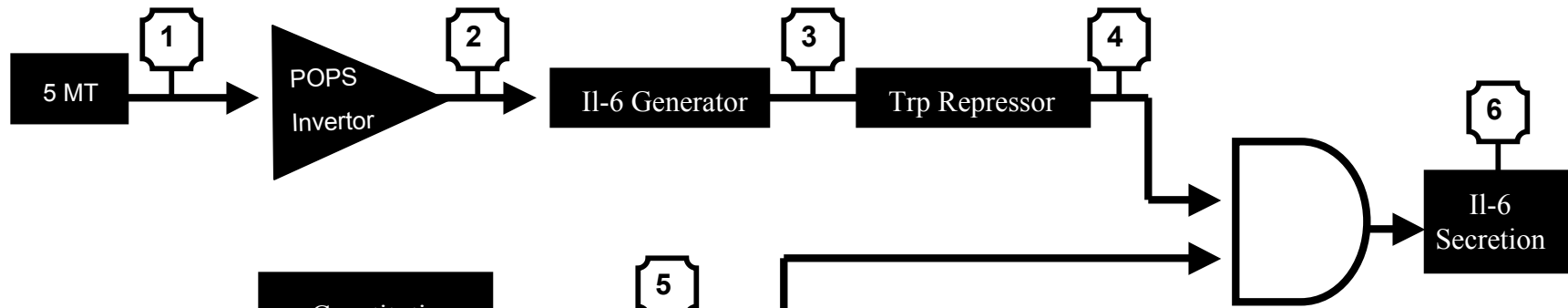
Device 1- Oxidative Stress Induced RA Generator



Device 1- Oxidative Stress Induced RA Generator



Device 2- Il-6 Secretion System

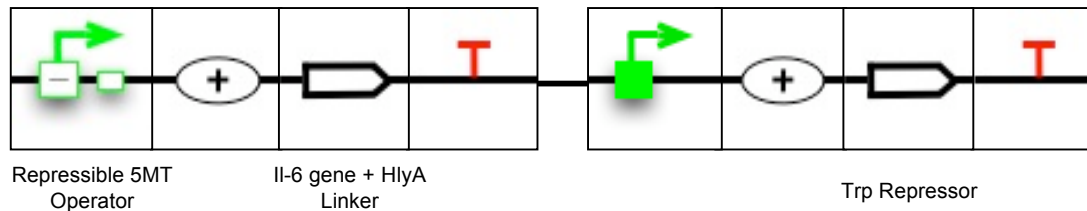


Device 2

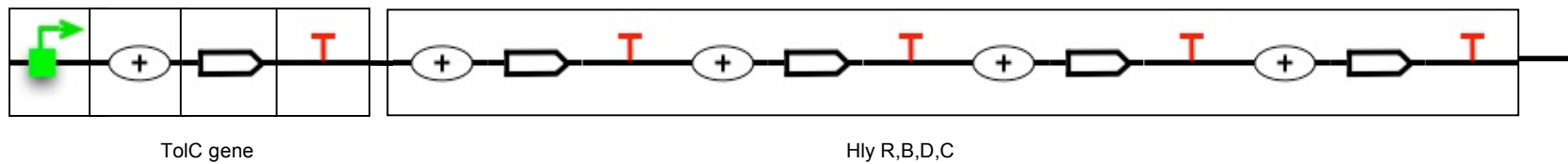
**5MT Level Sensitive
Sensor**

Il-6 Generator

Trp Repressor



Export System

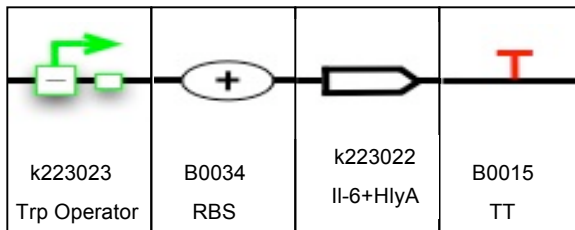


**Create an Export
Channel and Chaperone**

**Il-6
Secreted**

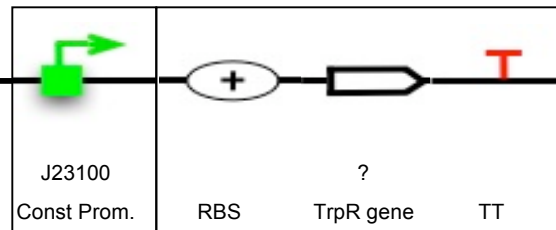
Device 2

5MT Level Sensitive Sensor



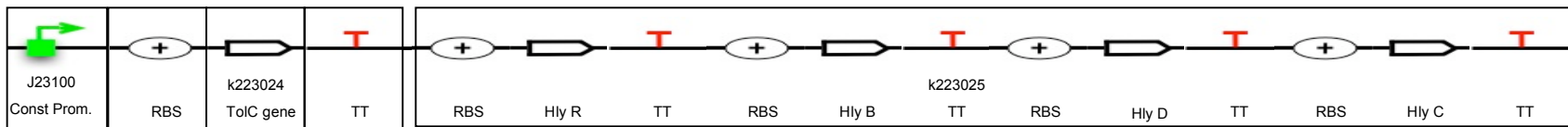
Il-6 + HlyA Linker allows
Il-6 to leave through the
export channel

Il-6 Generator

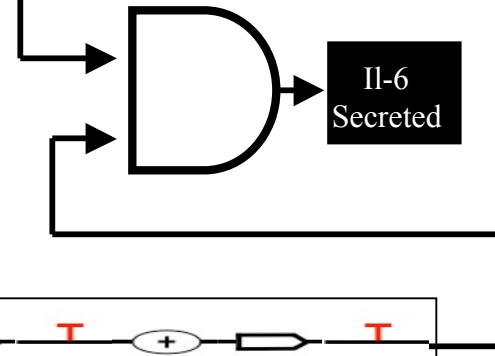


Trp Repressor

Export System



Create an Export Channel
and Chaperone



Il-6
Secreted